Abstract

The invention relates to a scanning microscope comprising: at least one light source (1, 3) that generates a beam bundle of illumination light; an acoustooptic component (13) for adjusting the light output of the illumination light beam bundle; and a beam deflection unit (19, 36) for guiding the illumination light beam bundle over or through a sample (27). Said microscope is configured in such a way that the acoustooptic component (13) spatially separates a partial light beam bundle from the illumination light beam bundle. The microscope is also equipped with beam guidance means, which direct the partial light beam bundle onto the sample, preferably to manipulate the latter.